| BRUHAT BANGALORE MAHANAGARA PALIKE | | |
|---|---|---|
| **NAME OF WORK : CONSTRUCTION OF RETAINING WALL AND OTHER DEVELOPMENTAL WORKS TO MARRIAGE COMMUNITY HALL BUILDING AT CHIKKABETTAHALLI IN WARD NO.03** | | |
| **ABSTRACT OF ESTIMATE** | | |
| **SL NO.** | **DESCRIPTION** | **AMOUNT** |
| 1 | Retaining Wall and compound wall | 9886563.58 |
| 2 | Project management Consultancy Charges(1% of estimated cost) | 100000.00 |
| 3 | Miscellenious and rounding | 13436.00 |
| | **TOTAL AMOUNT** | **10000000** |

**CERTIFICATE:**

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2016-2017, Data rate and Issued Rates.

**Assistant Engineer**
BBMP

**Assistant Executive Engineer**
BBMP

**Executive Engineer**
BBMP
28/6/19

**Administrative Approval**
Accorded For RS.100.00 Lakhs
Head of A/C P-0541
CER NO :.....02..... Dt:.28/6/19
E.E. (Project)
28/6/19

**Technical Sanction**
Accorded For RS.100.00 Lakhs
Head of A/C P-0541
CER NO :.....32..... Dt:28.06.201
TA
CE (YNK)

**BRUHAT BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK : CONSTRUCTION OF RETAINING WALL AND OTHER DEVELOPMENTAL WORKS TO MARRIAGE COMMUNITY HALL BUILDING AT CHIKKABETTAHALLI IN WARD NO.03**

**1. Retaining Wall and Compound Wall**

| | | | | | | | | Est.Cost.Rs. | 9886564 |
|---|---|---|---|---|---|---|---|---|---|
| **Sl No** | **Description of Item** | **Unit** | **No** | **L** | **B** | **D** | **Qty** | **Rate** | **Amount** |
| 1 | KSRB 2-2.5 : Excavation by manual means for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width in Hard Rock not exceeding 1.5 m. in depth including Stacking the excavated stuff from edges of excavation with lead upto 50m including cost of explosives, labour and HOM of equipment complete as per specifications. specification. No. KBS 2.1.d / 2.3.4 / 2.18 / 2.19 (P.No. 5/I.No. 2.7) | | | | | | | | |
| | **Compound Wall** | | | | | | | | |
| | Retaining Wall | | | | | | | | |
| | EasternSide | Cum | 1 | 15 | 6 | 4.15 | 373.5 | | |
| | WesternSide | Cum | 1 | 55 | 6 | 4.65 | 1534.5 | | |
| | SSM | Cum | | | | | | | |
| | southernside | Cum | 1 | 34 | 0.6 | 0.85 | 17.34 | | |
| | Northen side | Cum | 1 | 34 | 0.6 | 0.85 | 17.34 | | |
| | EasternSide | Cum | 1 | 40 | 0.6 | 0.85 | 20.4 | | |
| | Basic rate | | | | | | | 513 | |
| | Area weightage 8% | | | | | | | 41.04 | |
| | **Total** | | | | | | **1963.08** | **554.04** | **1087624.843** |
| 2 | KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No. 12/I.No. 4.2) | | | | | | | | |
| | **Compound Wall** | | | | | | | | |
| | Retaining Wall | | | | | | | | |
| | EasternSide | Cum | 1 | 15 | 6 | 0.15 | 13.5 | | |
| | WesternSide | Cum | 1 | 55 | 6 | 0.15 | 49.5 | | |
| | SSM | Cum | | | | | | | |
| | southernside | Cum | 1 | 34 | 0.6 | 0.15 | 3.06 | | |
| | Northen side | Cum | 1 | 34 | 0.6 | 0.15 | 3.06 | | |
| | EasternSide | Cum | 1 | 40 | 0.6 | 0.15 | 3.6 | | |
| | Basic rate | | | | | | | 5046 | |
| | Area weightage 8% | | | | | | | 403.68 | |
| | **Total** | | | | | | **72.72** | **5449.68** | **396300.7296** |
| 3 | KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerddressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing completeas per specifications.KBS 5.1.13 Pg No 23 item No 5.6 | | | | | | | | |
| | **Compound Wall** | | | | | | | | |
| | SSM | | | | | | | | |
| | southernside | Cum | 1 | 34 | 0.45 | 0.6 | 9.18 | | |
| | Northen side | Cum | 1 | 34 | 0.45 | 0.6 | 9.18 | | |
| | EasternSide | Cum | 1 | 40 | 0.45 | 0.6 | 10.8 | | |
| | Basic rate | | | | | | | 4187.00 | |
| | Area weightage 8% | | | | | | | 334.96 | |
| | **Total** | | | | | | **29.16** | **4521.96** | **131860.3536** |

| Sl No | Description of Item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 4 | KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.5 ) | | | | | | | | |
| | **Compound Wall** | | | | | | | | |
| | SSM | Cum | | | | | | | |
| | southernside | Cum | 1 | 34 | 0.45 | 0.1 | 1.53 | | |
| | Northen side | Cum | 1 | 34 | 0.45 | 0.1 | 1.53 | | |
| | EasternSide | Cum | 1 | 40 | 0.45 | 0.1 | 1.8 | | |
| | Basic rate | | | | | | | 5542 | |
| | Area weightage 8% | | | | | | | 443.36 | |
| | **Total** | | | | | | **4.86** | **5985.36** | **29088.8496** |
| 5 | KSRB 4-1.1: Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 | | | | | | | | |
| | **coping concrete arround building** | Cum | | | | | | | |
| | Northen side | Cum | 1 | 12 | 34 | 0.15 | 61.2 | | |
| | southernside | Cum | 1 | 27 | 34 | 0.15 | 137.7 | | |
| | EasternSide | Cum | 1 | 15 | 6 | 0.15 | 13.5 | | |
| | WesternSide | Cum | 1 | 15 | 6.94 | 0.15 | 15.61 | | |
| | **Temple Front side** | Cum | 1 | 10 | 12 | 0.15 | 18 | | |
| | Basic rate | | | | | | | 5213 | |
| | Area weightage 8% | | | | | | | 417.04 | |
| | **Total** | | | | | | **246.01** | **5630.04** | **1385046.14** |
| 6 | KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2, Pg No 15, Item No 4.28 | | | | | | | | |
| | **Compound Wall** | | | | | | | | |
| | Retaining Wall | | | | | | | | |
| | EasternSide | Sqm | 2 | 15 | | 3.5 | 105 | | |
| | edge | Sqm | 2 | 0.35 | | 3.5 | 2.45 | | |
| | base | Sqm | 2 | 15 | | 0.5 | 15 | | |
| | WesternSide | Sqm | 2 | 55 | | 4 | 440 | | |
| | edge | Sqm | 2 | 0.35 | | 4 | 2.8 | | |
| | base | Sqm | 2 | 55 | | 0.5 | 55 | | |
| | Basic rate | | | | | | | 231 | |
| | Area weightage 8% | | | | | | | 18.48 | |
| | **Total** | | | | | | **620.25** | **249.48** | **154739.97** |
| 7 | KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and First Floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls ( any thickness ) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.KBS 4.1, 4.6, Pg No 13, Item no.4.10 | | | | | | | | |
| | **Compound Wall** | | | | | | | | |
| | **Retaining Wall** | | | | | | | | |
| | Easternside | | | | | | | | |

| Sl No | Description of Item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Base Concreting | Cum | 1 | 15 | 6 | 0.5 | 45 | | |
| | Wall | Cum | 1 | 15 | 0.35 | 3.5 | 18.37 | | |
| | WesternSide | | | | | | | | |
| | Base Concreting | Cum | 1 | 55 | 6 | 0.5 | 165 | | |
| | Wall | Cum | 1 | 55 | 0.35 | 4 | 77 | | |
| | Basic rate | | | | | | | 6221 | |
| | Area weightage 8% | | | | | | | 497.68 | |
| | **Total** | | | | | | **305.37** | **6718.68** | **2051683.31** |
| 8 | Pg No.147 Item No.19.60 KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller)<br>MORTH Specification No. 305. | | | | | | | | |
| | **Filling in Foundation** | | | | | | | | |
| | Excavated earth | Cum | From SL no 1 | | | | **1963.08** | | |
| | **PCC** | | | | | | | | |
| | Retaining Wall | | | | | | | | |
| | EasternSide | Cum | 1 | 15 | 6 | 0.15 | -13.5 | | |
| | WesternSide | Cum | 1 | 55 | 6 | 0.15 | -49.5 | | |
| | SSM | Cum | | | | | | | |
| | southernside | Cum | 1 | 34 | 0.6 | 0.15 | -3.06 | | |
| | Northen side | Cum | 1 | 34 | 0.6 | 0.15 | -3.06 | | |
| | EasternSide | Cum | 1 | 40 | 0.6 | 0.15 | -3.6 | | |
| | **Concreting** | | | | | | | | |
| | **Reatining Wall** | | | | | | | | |
| | Easternside | | | | | | | | |
| | Base Concreting | Cum | 1 | 15 | 6 | 0.5 | -45 | | |
| | Wall | Cum | 1 | 15 | 0.35 | 3.5 | -18.375 | | |
| | WesternSide | | | | | | | | |
| | Base Concreting | Cum | 1 | 55 | 6 | 0.5 | -165 | | |
| | Wall | Cum | 1 | 55 | 0.35 | 4 | -77 | | |
| | SSM | | | | | | | | |
| | southernside | Cum | 1 | 34 | 0.45 | 0.6 | -9.18 | | |
| | Northen side | Cum | 1 | 34 | 0.45 | 0.6 | -9.18 | | |
| | EasternSide | Cum | 1 | 40 | 0.45 | 0.6 | -10.8 | | |
| | | | | | | | | | |
| | Basic rate | | | | | | | 302.00 | |
| | Area weightage 8% | | | | | | | 24.16 | |
| | **Total** | | | | | | **1555.83** | **326.16** | **507447.882** |
| 9 | Pg No 134,Item No17.4 Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge. | | | | | | | | |
| | EARTH | Cum | (item.no1) - (item no 11) | | | | 1963.08 | | |
| | Loading and unloading item no.17.1 KSRRB M 100-1 | Cum | | | | | | 68 | |
| | Basic rate for haulage of materials as per item No. 17.4 KSRRB : M 100 - 4.1 | t.km | For surface roads exluding loading & unloading | | | | Basic rate | 2.5 | |
| | Average Weight of Granite Stones (2.63 Tonne/cum.) | | For20Kms =20X2.63X2.5 | | | | | 131.50 | |

| Sl No | Description of Item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Basic rate | | | | | | | 199.50 | |
| | Area weightage 8% | | | | | | | 15.96 | |
| | Total | | | | | | **1963.08** | **215.5** | **422965.22** |
| 10 | Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.TMT Bars Fe 500 Specification No.4.6.3. item No.4.46.2 page no.17 | | | | | | | | |
| | **Retaining Wall** | cum | Concrete quantity | | | | **305.37** | | |
| | | kg | Steel assumed 132Kg/Cum of Concrete | | | | **40308.84** | | |
| | | tonne | | | | | **40.31** | | |
| | Basic rate | | | | | | | 60607 | |
| | Area weightage 8% | | | | | | | 4848.56 | |
| | **Total** | | | | | | **40.31** | **65455.56** | **2638437.695** |
| 11 | KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 page no 25 item no5.27.2 | | | | | | | | |
| | **Compound Wall** | | | | | | | | |
| | EasternSide | Sqm | 1 | 55 | | 1.8 | 99 | | |
| | WesternSide | Sqm | 1 | 55 | | 1.8 | 99 | | |
| | southernside | Sqm | 1 | 34 | | 1.8 | 61.2 | | |
| | Northen side | Sqm | 1 | 34 | | 1.8 | 61.2 | | |
| | Basic rate | | | | | | | 831 | |
| | Area weightage 8% | | | | | | | 66.48 | |
| | **Total** | | | | | | **320.4** | **897.48** | **287552.59** |
| 12 | KSRB15-3.8 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Pg No. 114,Item No.15.16 | | | | | | | | |
| | **External Plastering** | | | | | | | | |
| | **Compound Wall** | | | | | | | | |
| | EasternSide | Sqm | 2 | 55 | | 1.8 | 198 | | |
| | WesternSide | Sqm | 2 | 55 | | 1.8 | 198 | | |
| | southernside | Sqm | 2 | 34 | | 1.8 | 122.4 | | |
| | Northen side | Sqm | 2 | 34 | | 1.8 | 122.4 | | |
| | Basic rate | | | | | | | 221 | |
| | Area weightage 8% | | | | | | | 17.68 | |
| | **Total** | | | | | | **640.8** | **238.68** | **152946.144** |

| Sl No | Description of Item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 13 | providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty . Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of alll mateerial cost of labour and scaffolding etc. ,complete as per specification. Pg No.126 Item No.15.106 | | | | | | | | |
| | **External Wall putty** | | | | | | | | |
| | **Compound Wall** | | | | | | | | |
| | EasternSide | Sqm | 2 | 55 | | 1.8 | 198 | | |
| | WesternSide | Sqm | 2 | 55 | | 1.8 | 198 | | |
| | southernside | Sqm | 2 | 34 | | 1.8 | 122.4 | | |
| | Northen side | Sqm | 2 | 34 | | 1.8 | 122.4 | | |
| | | | | | | | | | |
| | Basic rate | | | | | | | 56.00 | |
| | Area weightage 8% | | | | | | | 4.48 | |
| | Total | | | | | | **640.80** | **60.48** | **38755.58** |
| 14 | Providing textured paint of approved quality, colour and shade to wall surface after cleaning and rubbing the wall suface with wire brush of medium size emery stone to remove all the loosely adhering particales Pg No 125,Item No15.105 | | | | | | | | |
| | External Painting | Sqm | Same as External Wall putty | | | | 640.80 | | |
| | Basic rate | | | | | | | 348.00 | |
| | Area weightage 8% | | | | | | | 27.84 | |
| | **Total** | | | | | | **640.8** | **375.84** | **240838.27** |
| 15 | Fabrication Providing and erecting in position Hot dip Galvanised Gateusing 72X72X48mm Sq GI Pipe frame with top pipe bending in heavy duty hydralic press with sand packing hot bending to form double arch as per drawing profile, 20mm hot dip Galvanised Sq. Road forverticles at 150mm c/c as Shown in the Drawing including providing hot dip Galvanised forgedornamental design in between Sq.rods and heads at Top, middle and bottom , intermediate supports of 75X12mm and 50X6mm aech bentto hot dip Galvanised Flats.The work is inclusiveof throughing GI,flat Sq, rods, placing,weldingall the joins including grinding ,finishing metalpatty, painting two coats enamel painting the rate is inclusive of allmaterials like GI Sq Pipe,GI forged designs etc., heavy duty hingers are made out of 75mm Solid Sqq. block assembled with 20mm dia bearing in three places for each flop using hoist pulley cranes with all lead andlift , loading, Transportation, unloading Scaffolding charges and all other incidental charges for successful completion of the work as peer Directions of the Engineer-in-charge opf the work( DATA RATE copy is enclosed) | | | | | | | | |
| | | | | | | | | | |
| | | Sqm | 2 | 4.00 | | 3.2 | 25.60 | | |
| | | Sqm | 1 | 1.20 | | 2.8 | 3.36 | | |
| | | | | | | | | | |
| | Data rate | | | | | | | 12475.00 | |
| | **Total** | | | | | | **28.96** | **12475.00** | **361276.00** |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | **Total Amount** | **9886563.58** |

**CERTIFICATES**

1 The work spot has been inspected and found to be necessary.

2 This estimate is prepared as per KPWD SR. of 2016-17 Data rate and Issued Rates.

3 The provisions were made in this estimate are necessary and adequate.

4 This works come under B.B.M.P. limits.

5 The work is not Spilt Up.

**Assistant Engineer**
BBMP

**Assistant Executive Engineer**
BBMP

**Executive Engineer**
BBMP